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ABSTRACT

~~The present invention discloses a~~A method ~~to have~~of a real time data communication ~~between a first user (U1) of a source (S) and a second user (U2) of a destination (DT)~~ via a real time data over ~~Internet Protocol~~ communication network.~~ The method comprises~~, including the steps of transmitting ~~by a transmitting means (TR) of the source (S)~~ at least two packets ~~(T1, T2, T3, T4)~~ from source to ~~the~~ destination ~~(D)~~, and determining by ~~a receiving means (REC) of~~ the destination ~~(D)~~ for each one ~~(T2)~~ of the at least two packets ~~(T1, T2, T3, T4)~~, time information ~~(T2_t2)~~ related to a receiving time ~~(t2)~~ of the packet ~~(T2)~~. ~~The method further comprises applying by the transmitting means (TR) for each one (T2) of the packets (T1, T2, T3, T4)~~ The source applies a predefined packet length ~~(l2) out of a plurality of packet lengths (l1, l2, …, li) in order to be transmitted accordingly. A first determining means (DET1)~~ to each packet, and the destination determines, according to ~~each~~the determined time information ~~(T1_t1, T2_t2, T3_t3, T4_t4) associated to the packets (T1, T2, T3, T4) of the receiving means (REC),~~ and ~~according to each predefined~~the packet length ~~(l1, l2, l3, l4) associated to the packets~~, the characteristics of a first relation ~~(f1(T, α))~~ between a packet length ~~of a packet to be transmitted from the source (S) to the destination (D)~~ and a source to destination delay ~~(d-S2D) being a time period between the transmission of said packet by the source (S) and reception of the packet by the destination (D). A second determining means (DET2)~~ The destination also determines a preferred mouth to ear delay ~~(d-M2E-pref)~~ according to a preferred quality rating ~~(Q-pref)~~ for the ~~real-time~~ data communication ~~(C). A third determining means (DET3)~~, and also determines an optimal packet length to be used by the source ~~(l-opt)~~ for the preferred mouth to ear delay ~~(d-M2E-pref)~~ and according to the characteristics of the first relation ~~(f1(T, α)) in order to be applied by the source (S) for packets being transmitted during the real time data communication.~~